

ECAT Pre Engineering Entry Test

Sr	Questions	Answers Choice
1	Question Image	A76 B. 96723 C. 5721 D96096
2	Question Image	
3	The gradient of a curve $Y = ax+b/x2$ at $(2,5)$ is 2. The value of a and b are.	A. 7,4 B. 7/3,4/3 C. 7,2 D. 7/3,2/3
4	The distance from the point P(6,-1) to the line $6x - 4x + 9 = 0$ is:	A. 5/7 B. √52/7 C. 2/48 D. 49 /√52
5	The sample space for tossing a coin once is	A. {T, T} B. {H, H} C. {H, T} D. None of these
6	If a_1 = 3, r = 2, then the nth term of the G.P. is	A. 2.3 ⁿ⁻¹ B. 3.2 ⁿ C. 3.2 ⁿ⁺¹ D. 3.2 ⁿ⁻¹
7	Question Image	
8	The length of perpendicular from $(3,1)$ to $4x + 3y + 20 = 0$ is	A. 6 B. 7 C. 3 D. 8
9	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
10	Question Image	
11	A fixed point which lies on the axis of the cone is called its:	A. axis B. apex C. plane D. diameter
12	There are types of rational fraction	A. Three B. Four C. Five D. Two
13	Question Image	
14	Question Image	
15	If a point (p,q) is equidistant from the points $(5,3)$ and $(-2,-4)$, then $p+q=$	A1 B. 1 C. 3 D3
16	The identity element of a set X with respect to intersection in P(x) is	A. X B. Does not exist C. ∅ D. None of these
17	for n€ N, 3 ^{2n + 7} is divisible by	A. 7 B. 8 C. 9 D. 10
18	Onto function is also called	A. Binjective function B. Injective function C. Surjective function

19 The domain of y = cos-1 x is A. $-\infty$ < \times < ∞ B. $-1 \le x \le 1$ C. $x \le -1$ or $x \ge 1$ D. None of these	
20 The modulus of a vector \underline{i} - \underline{i} + k is: B. 1 C. $\sqrt{2}$ D. ∞	